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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO	
10/820,142	04/08/2004	Yoichi Hachitani	330-275	6656	
23117	7590 02/10/2006		EXAM	EXAMINER	
	ANDERHYE, PC GLEBE ROAD, 11TH FLO	CLARK, SHEILA V			
	J, VA 22203	OK	ART UNIT	PAPER NUMBER	
	••		2823		
			DATE MAILED: 02/10/2000	DATE MAILED: 02/10/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application	n No.	Applicant(s)	<i>y</i> '			
	10/820,142	2	HACHITANI, YOICHI				
Office Action Summary	Examiner		Art Unit				
	S. V. Clark		2823				
The MAILING DATE of this communi	ication appears on the	cover sheet with the	correspondence address	••			
Period for Reply	OD DEDLV IS SET TO	NEVDIDE 2 MONTU	(C) EDOM				
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNI  - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this community of the period for reply specified above is less than thirty (3).  - If NO period for reply is specified above, the maximum states are provided to reply within the set or extended period for reply Any reply received by the Office later than three months a earned patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no ever nunication. 0) days, a reply within the statul atutory period will apply and will will, by statute, cause the applie	nt, however, may a reply be to cory minimum of thirty (30) da expire SIX (6) MONTHS from cation to become ABANDON	imely filed  ys will be considered timely.  In the mailing date of this communic  ED (35 U.S.C. § 133).	eation.			
Status							
1) Responsive to communication(s) file	d on <u>25 October 2005</u>	į.					
,—	2b)☐ This action is no						
3) Since this application is in condition	•			ts is			
closed in accordance with the practic	ce under <i>Ex parte Qua</i>	ayle, 1935 C.D. 11, 4	153 O.G. 213.				
Disposition of Claims							
4) Claim(s) 1-12 is/are pending in the a	application.						
4a) Of the above claim(s) is/al	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>2, 8</u> is/are allowed.							
6) Claim(s) <u>1,3,6 and 9-12</u> is/are reject	ed.						
7) Claim(s) <u>4 and 5</u> is/are objected to.							
8) Claim(s) are subject to restric	ction and/or election re	quirement.					
Application Papers							
9) ☐ The specification is objected to by the							
= '	0)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
• •	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
11) The oath or declaration is objected to	b by the Examiner. No	te the attached Offic	e Action or form PTO-15	2.			
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim a) All b) Some * c) None of:  1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies application from the Internatio * See the attached detailed Office actio	documents have beer documents have beer of the priority docume anal Bureau (PCT Rule	n received. n received in Applica nts have been receive 17.2(a)).	tion No ved in this National Stage	•			
Attachment(c)							
Attachment(s)  1) Notice of References Cited (PTO-892)		4) Interview Summar	ry (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (F		Paper No(s)/Mail (	Date				
<ol> <li>Information Disclosure Statement(s) (PTO-1449 or Paper No(s)/Mail Date <u>10/04</u>.</li> </ol>	PTO/SB/08)	6) Other:	Patent Application (PTO-152)				

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3, 6, 7, 9, 11, 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dumesnil et al. in view of the Admitted prior art in the instant disclosure on pages 1-2

Dumesnil et al teaches the use of glass seals in semiconductor packages that have a linear expansion coefficient in the range of that recited in the claims (see col.2) and claim 1 recites that said glass also may be formed of copper and phosphorous (CuO and PO).

As the claims recitation of "made of plastic" fails to render the entire package as consisting of plastic but may also include certain piece parts in said package made of plastic. As semiconductor packages may be include an array of components pieces including such materials as plastic (such as for encapsulations, underfill materials, coatings) and as the teachings of Dumesnil et al are relative to typical semiconductor packages in general it would have been therefore obvious to one having ordinary skill in this art that the typical package of Dumesnil would include typical components such as plastics (i.e. encapsulations, underfill materials, coatings etc.) which are commonly used for protective purposes.

Further though Dumesnil et al fails to discuss use of glass as windows he does mention use of glass sealing materials in the broad sense and as glass windows and

lenses are commonly used to seal packages it would have been obvious to one having ordinary skill in this art that the sealing glass of Dumesnil also includes those glass windows and lenses as they are commonly uses as seals as mentioned above and as these glass windows (i.e. lens) are further taught to be typical regarding the image sensing devices of the admitted prior art in the disclosure on pages 1-2.

Use of temperatures in the range of those recited in claim 7 is also taught (col.3, line 26).

Claim 9 contains components that depend on the used of method of making characteristics (i.e. precision press molded) given no patentable weight in determining the patentability of the final device product.

Note that a Aproduct by process≘ claim is directed to the product per se, no matter how actually made, In re Hirao 190 USPQ 15 at 17(footnote 3). See also In re Brown, 173 USPQ 685; In re Luck, 177 USPQ 523; In re Fessman, 180 USPQ 324; In re Avery, 186 USPQ 161 and In re Marosi et al, 218 USPQ 289, all of which make it clear that it is the patentability of the final product per se which must be determined in Aproduct by process≘ claims, and not the patentability of the process, and that, as here, an old or obvious product produced by a new method is not patentable as a product, whether claimed in Aproduct by process≘ claims or not.

Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Dumesnil et al in view of the Admitted prior art in the instant disclosure on pages 1-2 and Hamanaka et al.

Dumesnil et al teaches the use of glass seals in semiconductor packages that have a linear expansion coefficient in the range of that recited in the claim (see col.2).

Further though Dumesnil et al fails to discuss use of glass as windows he does mention use of glass sealing materials in the broad sense and as glass windows and lenses are commonly used to seal packages it would have been obvious to one having ordinary skill in this art that the sealing glass of Dumesnil also includes those

glass windows and lenses as they are commonly uses as seals as mentioned above and as these glass windows (i.e. lens) are further taught to by typical in the admitted prior art in the disclosure on pages 1-2.

Glasses or lenses may typically be produced by press molding Hamanaka teaches press molding of a lens or glass (i.e. col. 1, line 44) in the description of the prior art relating that this method is a well known in the production of lens (i.e. glass). As Dumesnil teaches that his device is related to typical package convention is would have been obvious that these typical conventions would include the well known use of press molding to form a glass lens.

Use of temperatures recited in the claim is also taught (col.3, line 26). Claims 1, 3, 6, 7, 9,10, 11,12 are rejected.

Claims 4 and 5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 2, 8 are considered allowable over the prior art of record.

Applicant's arguments filed 10-25-05 have been fully considered but they are not persuasive. The claims as they are broadly recited are deemed to be taught by Dumesnil. Glass windows of semiconductor packages are typically used too close up an openings for sealing purposes and would therefore be considered sealing glasses and therefore applicable to the teaching of Dumesnil. Dumesnil teaches that the glasses of his device may be used as semiconductor package materials which are deemed to include glass window means. Further the teachings of Dumesnil fail to exclude window

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sealing means. The instant claims further recite very little structure other than "glass for a window of a semiconductor package" which lends itself to broad interpretation relative to the structural characteristics of glass package windows.

As applicant's arguments details that the method of "press molding" in claim 10 is related to an optical function. An optical structure nor function however has not been recited in claim 10 and the "lens" recited in only recited to reference the "shape" of the window.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication should be directed to S. V. Clark at telephone number (571) 272-1725.

Primary Examiner

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February 3, 2006